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The Files (R&D Lab)

12 June 1958



25X1

Operational Check of the CV-2A Transistorized Converter

1. The CV-2A is a miniature transistorized converter designed to permit the reception of radio signals in the 3-12 mcs range when used with an average broadcast receiver.

2. An elementary operational test of the CV-2A converter provided the following information:

(a) Range:

3-12 mcs

(b) AM sensitivity of an RCA table model receiver measured using the CV-2A converter:

Receiver Sensitivity at 1500 kcs - 24 microvolts

Receiver Audio Output Impedance - 4 ohms

Receiver Audio Output - 100 milliwatts

(c) AM Sensitivity of Receiver using CV-2A:

See next page for chart.

3. The test results of range and sensitivity indicate that the CV-2A operated satisfactorily with the exception that the dial markings should more accurately indicate the operating frequency.

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NO CHANGE IN CLASS. ☐☐ DECLASSIFIED

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AUTH: HR 70-2

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REVIEWER: 064540



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Design Unit Endorsement:

This checks out with our readings and is acceptable. The curve of capacity versus rotation from one Stoddard to another varies. We are trying to find best compromise as to frequency calibration or will hand calibrate each one.



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Distribution: 2 - A&A

1 - Design

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(c) AM Sensitivity of Receiver using CV-2A: (Continued)

Frequency (mcs) Operating	Crystal	Sensitivity Microvolts	Dial Setting
2.911	4.411	15.2	3
3.0	4.5	5.6	+3
3.5	5.0	2.8	
3.926	5.426	3.4	
4.0	5.5	2.0	
4.5	6.0	1.48	
5.0	6.5	0.80	
6.0	4.5	1.8	+6
6.0	7.5	1.2	+6
7.0	5.5	1.45	9
7.0	8.5	1.5	9
8.0	6.5	1.5	+9
8.0	9.5	2.1	+9
9.0	7.5	1.35	+9
9.0	10.5	3.1	+9
10.0	8.5	1.6	
11.0	9.5	1.9	
12.0	10.5	4.8	12

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